

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/740,585	12/18/2000	Jeffrey Morgan Alden	GP-300849	6363

7590 08/12/2004

GEORGE A. GROVE  
General Motors Corporation  
Legal Staff  
P.O. Box 300, Mail Code 482-C23-B21  
Detroit, MI 48265-3000

EXAMINER


CAMPBELL, JOSHUA D

ART UNIT	PAPER NUMBER
----------	--------------

2179

DATE MAILED: 08/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No. 09/740,585	Applicant(s) ALDEN ET AL. 	
	Examiner Joshua D Campbell	Art Unit 2179	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 02 June 2004.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

**DETAILED ACTION**

1. This action is responsive to communications: Amendment filed on 06/02/2004.
2. Claims 1-22 are pending in this case. Claims 1, 10, and 18 are independent claims. Claims 1, 10, and 18 have been amended.
3. The rejection of claims 1-15 and 17-21 under 35 U.S.C. 102(a) as being anticipated by Brandywine Software, LLC has been withdrawn as necessitated by amendment.
4. The rejection of claims 16 and 22 under 35 U.S.C. 103(a) as being unpatentable over Brandywine Software, LLC has been withdrawn as necessitated by amendment.

***Claim Rejections - 35 USC § 103***

5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
6. Claims 1-15, and 17-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brandywine Software, LLC (hereinafter Brandywine, xINavigator web page published on September 28, 2000) in view of Himmel et al. (hereinafter Himmel, US Patent Number 6,041,360, issued on March 21, 2000).

**Regarding independent claim 1**, Brandywine discloses a method in which cells in a spreadsheet are identified as data or calculation cells (Pages 3-4 of Brandywine). From this a visual representation is formed using data and calculation entities, which

Art Unit: 2179

correspond to the cells (Pages 3-4 of Brandywine). The entities are positioned based on a predetermined layout in which arrows connect the entities based on their corresponding relationship in the spreadsheet (Pages 3-4 of Brandywine). Brandywine also discloses that changes in the cells are detected and the entities are changed to reflect those changes in order to maintain a functional equivalence (Pages 3-4 of Brandywine). Brandywine does not disclose that the changes are automatically made, rather that an update button must be selected by the user to reflect changes. However, Himmel discloses a method in which a bookmark representation of a corresponding web page is automatically changed/updated if a change is detected in the corresponding web page, thus keeping the different corresponding representations of information consistent (column 2, line 55-column 3, line 24 of Himmel). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have combined the method of Brandywine with the method of Himmel because it would have guaranteed the user would always be viewing the correct up-to-date information.

**Regarding dependent claim 2,** Brandywine discloses that changes in the cells (including content changes) are detected and the entities are changed to reflect those changes in order to maintain a functional equivalence (Pages 3-4 of Brandywine).

**Regarding dependent claims 3 and 4,** Brandywine discloses that the user may configure the entities in a visually pleasing manner or allow the entities to be automatically configured based on an algorithm (Pages 3-4 and 7 of Brandywine).

**Regarding dependent claims 5 and 6**, Brandywine discloses that the appearance of each entity is based on its function, data entities into one shape and calculation into another shape (Pages 3-4 and 7 of Brandywine).

**Regarding dependent claim 7**, Brandywine discloses that multiple entities are created when a cell is used more than once in the spreadsheet (Pages 3-4 and 7 of Brandywine).

**Regarding dependent claim 8**, Brandywine discloses that entities are automatically deleted from the visual representation when the cells that correspond to them are removed from the spreadsheet (Pages 3-4 and 7 of Brandywine).

**Regarding dependent claim 9**, Brandywine discloses a method in which descriptive labels for each entity are identified (Pages 3-4 and 7 of Brandywine).

**Regarding independent claim 10**, Brandywine discloses a method in which cells in a spreadsheet are identified as data or calculation cells (Pages 3-4 of Brandywine). From this a visual representation is formed using data and calculation entities, which correspond to the cells (Pages 3-4 of Brandywine). The entities are positioned based on a predetermined layout in which arrows connect the entities based on their corresponding relationship in the spreadsheet (Pages 3-4 of Brandywine). Brandywine also discloses that changes in the cells and the entities are detected and the entities or cells are changed to reflect those changes in order to maintain a functional equivalence between the two (Pages 3-4 of Brandywine).

**Regarding dependent claim 11,** The entities are positioned based on a predetermined layout in which arrows connect the entities based on their corresponding relationship in the spreadsheet (Pages 3-4 of Brandywine).

**Regarding dependent claims 12-15,** the claims incorporate substantially similar subject matter as claims 3-7. Thus, the claims are rejected along the same rationale as claims 3-7.

**Regarding dependent claims 16 and 22,** Brandywine does not disclose a method in which deleting entities from the visual representation automatically deletes the corresponding cells from the spreadsheet. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to do this because it would be necessary to maintain a direct link between the visual representation and Excel spreadsheet cells as disclosed by Brandywine (Pages 3-4 of Brandywine).

**Regarding dependent claim 17,** Brandywine discloses a visual representation that would have been an influence diagram because by definition an influence diagram by the applicant is "An influence diagram is a graphical display that describes a system or operation as a series of images (bubbles, nodes, etc.) interconnected by arrows," which is what is shown by Brandywine (Pages 3-4 and 7 of Brandywine).

**Regarding independent claim 18 and dependent claims 19-21,** the claims incorporate substantially similar subject matter as claims 10-11 and 14-15. Thus, the claims are rejected along the same rationale as claims 10-11 and 14-15.

### ***Response to Arguments***

Art Unit: 2179

7. Applicant's arguments with respect to claims 1, 10, and 18 have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joshua D Campbell whose telephone number is (703)305-5764. The examiner can normally be reached on M-F (8:00 AM - 4:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Heather Herndon can be reached on (703)308-5186. The fax phone

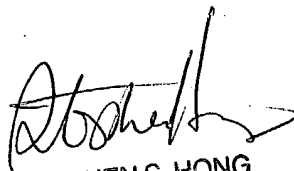


Art Unit: 2179

number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JDC  
August 4, 2004



STEPHEN S. HONG  
PRIMARY EXAMINER